

# R2500 THRU R3000

# GW

## HIGH VOLTAGE SILICON RECTIFIERS



### FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability

### MECHANICAL DATA

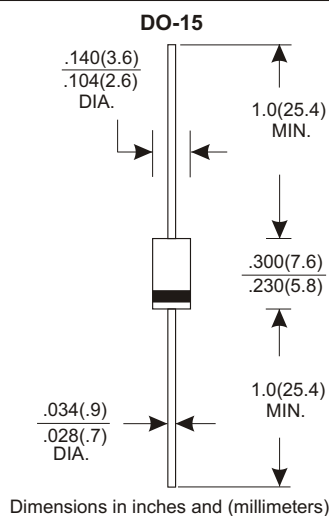
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

### VOLTAGE RANGE

2500 to 3000 Volts

### CURRENT

200m Ampere



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

TYPE NUMBER	R2500	R3000	UNITS
Maximum Recurrent Peak Reverse Voltage	2500	3000	V
Maximum RMS Voltage	1750	2100	V
Maximum DC Blocking Voltage	2500	3000	V
Maximum Average Forward Rectified Current			
.375"(9.5mm) Lead Length at Ta=50°C	200		mA
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30		A
Maximum Instantaneous Forward Voltage at 0.2A D.C.	3.0		V
Maximum DC Reverse Current Ta=25°C	5.0		μA
at Rated DC Blocking Voltage Ta=100°C	50		μA
Typical Junction Capacitance (Note 1)	30		pF
Operating and Storage Temperature Range Tj, Tstg	-65 — +150		°C

#### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATING AND CHARACTERISTIC CURVES (R2500 THRU R3000)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

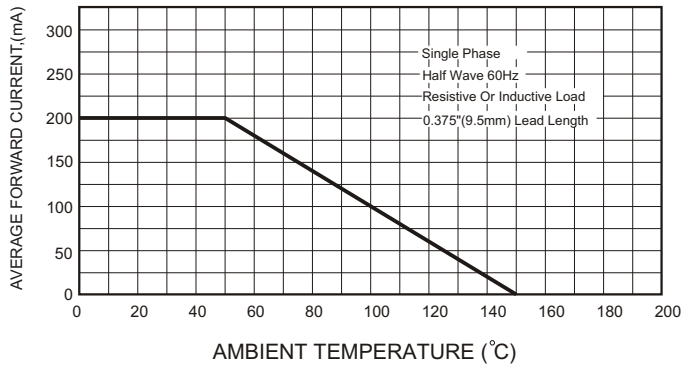


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

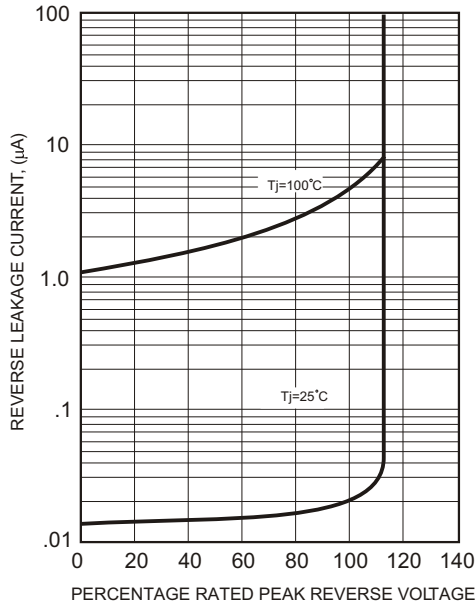


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

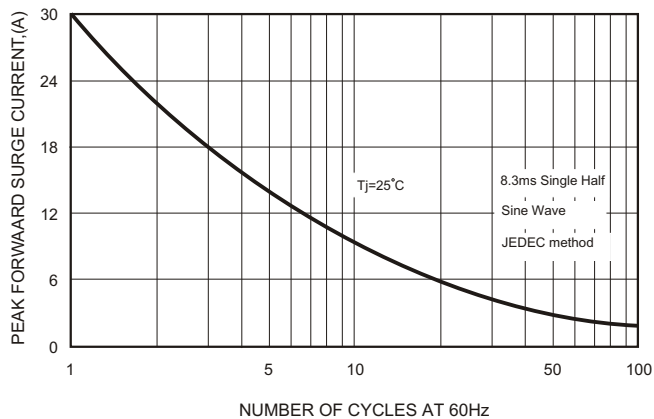


FIG.4-TYPICAL JUNCTION CAPACITANCE

